

Oxy Corral Canyon 36-25 Federal Com 23H Gyro+MWD 0-20,675' Survey

Geodetic Report

(Def Survey)

30.015-44633



Report Date: April 23, 2018 - 04:08 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Corral Canyon 36-25 Federal Com 23H / Oxy Corral Canyon 36-25 Federal Com 23H
 Well: Oxy Corral Canyon 36-25 Federal Com 23H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44633
 Survey Name: Oxy Corral Canyon 36-25 Federal Com 23H Gyro+MWD 0-20,675'
 Survey Date: April 12, 2018
 Tort / AHD / DDI / ERD Ratio: 309.166' / 12453.202' R / 6.940' / 1.363
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 9' 55.80384", W 103° 56' 29.57735"
 Location Grid N/E Y/X: N 424164.980 RUS, E 662567.640 RUS
 CRS Grid Convergence Angle: 0.2086°
 Grid Scale Factor: 0.99992592
 Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 3.084° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3140.000 ft above MSL
 Seabed / Ground Elevation: 3113.500 ft above MSL
 Magnetic Declination: 6.987°
 Total Gravity Field Strength: 998.4503mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48005.145 nT
 Magnetic Dip Angle: 59.926°
 Declination Date: April 12, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.2086°
 Total Corr Mag North-Grid: 6.7782°
 North: Well Head
 Local Coord Referenced To:

NM OIL CONSERVATION
 ARTESIA DISTRICT

JUN 06 2018

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Comments	MD (ft)	Incl (°)	Azimuth (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	424164.98	662567.64	N 32° 9' 55.80"	W 103° 56' 29.58"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	424164.98	662567.64	N 32° 9' 55.80"	W 103° 56' 29.58"
	109.50	0.17	25.83	109.50	0.11	0.11	0.05	0.20	424165.09	662567.69	N 32° 9' 55.80"	W 103° 56' 29.58"
	161.50	0.21	313.26	161.50	0.25	0.25	0.02	0.44	424165.23	662567.68	N 32° 9' 55.81"	W 103° 56' 29.58"
	250.50	0.22	261.13	250.50	0.32	0.33	-0.27	0.21	424165.31	662567.37	N 32° 9' 55.81"	W 103° 56' 29.58"
	341.50	0.30	275.90	341.50	0.29	0.33	-0.68	0.11	424165.31	662566.96	N 32° 9' 55.81"	W 103° 56' 29.59"
	435.50	0.31	241.71	435.50	0.17	0.23	-1.15	0.19	424165.21	662566.49	N 32° 9' 55.81"	W 103° 56' 29.59"
	531.50	0.48	257.08	531.49	-0.07	0.02	-1.77	0.21	424165.00	662565.87	N 32° 9' 55.80"	W 103° 56' 29.60"
	695.00	0.00	220.14	694.99	-0.26	-0.13	-2.44	0.29	424164.85	662565.20	N 32° 9' 55.80"	W 103° 56' 29.61"
	790.00	0.69	160.18	789.99	-0.79	-0.87	-2.24	0.73	424164.31	662565.40	N 32° 9' 55.80"	W 103° 56' 29.60"
	966.00	0.08	316.15	965.99	-1.68	-1.58	-1.97	0.43	424163.40	662565.67	N 32° 9' 55.79"	W 103° 56' 29.60"
	1057.00	0.00	171.07	1056.99	-1.64	-1.53	-2.01	0.09	424163.45	662565.63	N 32° 9' 55.79"	W 103° 56' 29.60"
	1153.00	0.13	110.29	1152.99	-1.67	-1.57	-1.91	0.14	424163.41	662565.73	N 32° 9' 55.79"	W 103° 56' 29.60"
	1247.00	0.06	154.57	1246.99	-1.75	-1.65	-1.79	0.10	424163.33	662565.85	N 32° 9' 55.79"	W 103° 56' 29.60"
	1344.00	0.08	23.53	1343.99	-1.73	-1.64	-1.74	0.13	424163.34	662565.90	N 32° 9' 55.79"	W 103° 56' 29.60"
	1438.00	0.06	61.43	1437.99	-1.64	-1.55	-1.67	0.05	424163.43	662565.97	N 32° 9' 55.79"	W 103° 56' 29.60"
	1533.00	0.06	29.80	1532.99	-1.57	-1.49	-1.60	0.03	424163.49	662566.04	N 32° 9' 55.79"	W 103° 56' 29.60"
	1627.00	0.13	75.17	1626.99	-1.49	-1.42	-1.47	0.10	424163.56	662566.17	N 32° 9' 55.79"	W 103° 56' 29.59"
	1722.00	0.50	40.08	1721.98	-1.13	-1.07	-1.10	0.42	424163.91	662566.54	N 32° 9' 55.79"	W 103° 56' 29.59"
	1816.00	0.76	39.32	1815.98	-0.30	-0.27	-0.44	0.28	424164.71	662567.20	N 32° 9' 55.80"	W 103° 56' 29.58"
	1893.00	0.08	214.01	1892.98	0.07	0.08	-0.15	1.09	424165.06	662567.49	N 32° 9' 55.80"	W 103° 56' 29.58"
	2084.00	0.00	77.41	2083.98	-0.05	-0.03	-0.23	0.04	424164.95	662567.41	N 32° 9' 55.80"	W 103° 56' 29.58"
	2178.00	0.08	342.35	2177.98	0.01	0.03	-0.25	0.09	424165.01	662567.39	N 32° 9' 55.80"	W 103° 56' 29.58"
	2273.00	0.00	30.03	2272.98	0.08	0.09	-0.27	0.08	424165.07	662567.37	N 32° 9' 55.80"	W 103° 56' 29.58"
	2367.00	0.08	53.21	2366.98	0.12	0.13	-0.21	0.09	424165.11	662567.43	N 32° 9' 55.81"	W 103° 56' 29.58"
	2462.00	0.08	69.32	2461.98	0.19	0.19	-0.10	0.02	424165.17	662567.54	N 32° 9' 55.81"	W 103° 56' 29.58"
	2556.00	0.11	114.45	2555.98	0.18	0.18	0.05	0.08	424165.16	662567.69	N 32° 9' 55.81"	W 103° 56' 29.58"
	2651.00	0.13	124.79	2650.98	0.09	0.08	0.22	0.03	424165.06	662567.86	N 32° 9' 55.80"	W 103° 56' 29.57"
	2746.00	0.06	211.57	2745.98	-0.01	-0.02	0.28	0.15	424164.96	662567.92	N 32° 9' 55.80"	W 103° 56' 29.57"
	2840.00	0.11	134.04	2839.98	-0.11	-0.13	0.32	0.12	424164.85	662567.96	N 32° 9' 55.80"	W 103° 56' 29.57"
	2934.00	0.13	137.35	2933.98	-0.24	-0.27	0.46	0.02	424164.71	662568.10	N 32° 9' 55.80"	W 103° 56' 29.57"
	3028.00	0.13	129.57	3027.98	-0.38	-0.42	0.61	0.02	424164.56	662568.25	N 32° 9' 55.80"	W 103° 56' 29.57"
	3123.00	0.08	119.36	3122.98	-0.48	-0.52	0.75	0.06	424164.46	662568.39	N 32° 9' 55.80"	W 103° 56' 29.57"
	3217.00	0.06	109.40	3216.98	-0.52	-0.57	0.86	0.02	424164.41	662568.49	N 32° 9' 55.80"	W 103° 56' 29.57"
	3311.00	0.08	128.23	3310.98	-0.57	-0.62	0.95	0.03	424164.36	662568.59	N 32° 9' 55.80"	W 103° 56' 29.57"
	3405.00	0.06	144.77	3404.98	-0.65	-0.70	1.03	0.03	424164.28	662568.67	N 32° 9' 55.80"	W 103° 56' 29.57"
	3499.00	0.00	213.72	3498.98	-0.69	-0.74	1.06	0.06	424164.24	662568.70	N 32° 9' 55.80"	W 103° 56' 29.57"
	3594.00	0.00	193.40	3593.98	-0.69	-0.74	1.06	0.00	424164.24	662568.70	N 32° 9' 55.80"	W 103° 56' 29.57"
	3688.00	0.00	237.86	3687.98	-0.69	-0.74	1.06	0.00	424164.24	662568.70	N 32° 9' 55.80"	W 103° 56' 29.57"
	3777.00	0.08	352.25	3776.98	-0.56	-0.61	1.04	0.04	424164.37	662568.68	N 32° 9' 55.80"	W 103° 56' 29.57"
	3971.00	0.08	298.49	3970.97	-0.46	-0.52	0.98	0.08	424164.46	662568.62	N 32° 9' 55.80"	W 103° 56' 29.57"
	4160.00	0.00	278.03	4159.97	-0.41	-0.45	0.86	0.04	424164.53	662568.50	N 32° 9' 55.80"	W 103° 56' 29.57"
	4254.00	0.13	274.14	4253.97	-0.40	-0.45	0.75	0.14	424164.53	662568.39	N 32° 9' 55.80"	W 103° 56' 29.57"
	4349.00	0.08	287.14	4348.97	-0.39	-0.42	0.58	0.06	424164.56	662568.22	N 32° 9' 55.80"	W 103° 56' 29.57"
	4537.00	2.58	71.14	4536.91	1.23	0.99	4.48	1.41	424165.97	662572.10	N 32° 9' 55.81"	W 103° 56' 29.53"
	4632.00	5.51	71.61	4631.67	3.70	3.12	10.82	3.08	424168.10	662578.46	N 32° 9' 55.83"	W 103° 56' 29.45"
	4726.00	8.78	73.33	4724.92	7.77	6.60	21.97	3.49	424171.58	662589.61	N 32° 9' 55.87"	W 103° 56' 29.32"
	4820.00	10.59	74.67	4817.58	12.93	10.94	37.18	1.94	424175.92	662604.82	N 32° 9' 55.91"	W 103° 56' 29.14"
	5009.00	13.72	69.27	5002.33	27.47	23.47	74.90	1.76	424188.45	662642.53	N 32° 9' 56.03"	W 103° 56' 28.71"
	5104.00	15.10	62.97	5094.34	38.23	33.08	96.48	2.20	424198.06	662664.09	N 32° 9' 56.13"	W 103° 56' 28.45"
	5292.00	18.59	52.27	5274.29	70.12	62.57	142.00	2.48	424227.54	662709.63	N 32° 9' 56.42"	W 103° 56' 27.92"
	5386.00	15.85	47.73	5364.07	89.05	80.37	163.35	3.24	424245.35	662730.98	N 32° 9' 56.59"	W 103° 56' 27.67"
	5481.00	13.92	45.82	5455.88	106.87	97.06	181.15	2.10	424262.04	662748.78	N 32° 9' 56.76"	W 103° 56' 27.47"
	5670.00	12.85	43.73	5639.74	139.32	128.10	211.98	0.62	424293.07	662779.61	N 32° 9' 57.06"	W 103° 56' 27.11"
	5764.00	12.34	42.82	5731.48	154.97	143.02	226.04	0.58	424307.99	662793.66	N 32° 9' 57.21"	W 103° 56' 26.94"
	5953.00	10.06	38.36	5916.87	183.98	170.78	250.01	1.29	424335.75	662817.63	N 32° 9' 57.48"	W 103° 56' 26.65"
	6047.00	10.48	37.76	6009.37	197.70	183.96	260.33	0.44	424348.93	662827.95	N 32° 9' 57.61"	W 103° 56' 26.54"
	6142.00	10.05	37.87	6102.85	211.60	197.32	270.70	0.43	424362.29	662836.32	N 32° 9' 57.75"	W 103° 56' 26.42"
	6331.00	10.24	38.42	6288.90	238.85	223.50	291.26	0.11	424388.47	662856.88	N 32° 9' 58.00"	W 103° 56' 26.18"
	6425.00	10.17	39.49	6381.41	252.34	238.45	301.73	0.21	424401.42	662869.35	N 32° 9' 58.13"	W 103° 56' 26.06"
	6614.00	9.47	39.17	6567.16	278.34	261.39	322.17	0.37	424426.35	662899.78	N 32° 9' 58.38"	W 103° 56' 25.82"
	6803.00	9.10	39.54	6754.16	302.93	284.97	341.50	0.20	424449.92	662909.12	N 32° 9' 58.61"	W 103° 56' 25.59"
	6898.00	9.14	39.18	6847.98	315.06	296.61	351.05	0.07	424461.57	662918.66	N 32° 9' 58.73"	W 103° 56' 25.48"
	6992.00	8.63	39.28	6940.83	326.79	307.85	360.23	0.54	424472.81	662927.84	N 32° 9' 58.84"	W 103° 56' 25.37"
	7086.00	8.16	40.87	7033.83	337.75	318.36	369.08	0.56	424483.31	662936.67	N 32° 9' 58.94"	W 103° 56' 25.27"
	7181.00	8.58	48.42	7127.82	348.06	328.16	378.78	1.24	424493.11	662948.39	N 32° 9' 59.04"	W 103° 56' 25.16"
	7275.00	7.97	50.55	7220.84	357.40	336.95	389.05	0.73	424501.81	662956.66	N 32° 9' 59.12"	W 103° 56' 25.04"
	7369.00	8.06	51.27	7313.92	366.20	345.22	399.23	0.14	424510.17	662966.84	N 32° 9' 59.21"	W 103° 56' 24.92"
	7464.00	8.14	53.41	7407.97	374.93	353.39	409.82	0.33	424518.35	662977.43	N 32° 9' 59.29"	W 103° 56' 24.79"
	7558.00	7.85	53.52	7501.06	383.27	361.18	420.33	0.31	424526.13	662987.93	N 32° 9' 59.36"	W 103° 56' 24.67"
	7652.00	8.61	46.64	7594.09	392.46	369.83	430.60	1.32	424534.78	662998.21	N 32° 9' 59.45"	W 103° 56' 24.55"
	7747.00	8.25	36.60	7688.07	403.29	380.18	439.84	1.59	424545.13	663007.44	N 32° 9' 59.55"	W 103° 56' 24.44"
	7841.00	7.78	23.79	7781.16	414.85	391.40	446.42	0.96	424556.35	663014.03	N 32° 9' 59.66"	W 103° 56' 24.37"
	8030.00	6.84	17.93	7868.83	437.67	413.79	455.03	0.63	424578.74	663022.64	N 32°	

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
	(ft)	(°)		(ft)	(ft)	(ft)		(ft/100ft)	(ftUS)	(ftUS)	(N 0.1° 13' W 103 56 21.42)	(W 103 56 21.42)
	8461.00	4.95	85.78	8397.81	483.98	438.80	480.09	1.08	424804.75	683047.89	N 32 10 0.13 W 103 56 21.42	W 103 56 21.42
	8463.00	6.27	86.38	8519.22	485.90	439.38	482.00	1.10	424804.32	683048.80	N 32 10 0.13 W 103 56 21.42	W 103 56 21.42
	8465.00	8.62	87.82	8572.69	486.27	440.12	479.99	1.29	424803.95	683049.85	N 32 10 0.13 W 103 56 21.42	W 103 56 21.42
	8467.00	21.05	88.44	8684.02	480.45	433.39	513.23	16.94	424803.33	683050.83	N 32 10 0.27 W 103 56 21.36	W 103 56 21.36
	8469.00	25.18	43.72	8751.38	508.60	480.18	541.16	7.86	424803.12	683108.76	N 32 10 0.54 W 103 56 21.36	W 103 56 21.36
	8471.00	31.65	36.25	8834.91	544.85	514.95	598.58	8.12	424803.78	683137.50	N 32 10 0.88 W 103 56 21.36	W 103 56 21.36
	8473.00	37.93	28.36	8912.93	592.16	569.19	658.26	15.90	424785.73	683168.15	N 32 10 1.33 W 103 56 22.58	W 103 56 22.58
	8475.00	51.79	20.33	8978.45	653.13	635.18	735.12	8.78	424785.12	683192.86	N 32 10 1.33 W 103 56 22.58	W 103 56 22.58
	8477.00	60.45	16.59	9051.62	715.12	685.16	848.82	8.78	424785.12	683217.41	N 32 10 2.66 W 103 56 21.89	W 103 56 21.89
	8479.00	76.64	13.82	9103.16	776.90	776.90	876.00	8.13	424801.82	683242.59	N 32 10 3.47 W 103 56 21.69	W 103 56 21.69
	8481.00	84.93	359.84	9112.73	992.85	955.77	714.91	16.34	425028.83	683268.88	N 32 10 4.33 W 103 56 21.41	W 103 56 21.41
	8483.00	94.38	355.48	9109.20	1093.62	1050.56	712.66	10.54	425028.83	683292.49	N 32 10 5.24 W 103 56 21.24	W 103 56 21.24
	8485.00	97.52	355.48	9103.61	1169.80	1133.17	711.39	2.39	425028.83	683320.25	N 32 10 6.63 W 103 56 21.24	W 103 56 21.24
	8487.00	92.20	337.42	9093.69	1357.24	1321.52	699.56	1.37	425068.06	683378.97	N 32 10 8.69 W 103 56 21.25	W 103 56 21.25
	8489.00	90.69	335.19	9091.20	1451.87	1416.44	698.75	2.45	425068.06	683404.34	N 32 10 9.78 W 103 56 21.38	W 103 56 21.38
	8491.00	88.90	335.56	9091.63	1548.87	1511.43	695.71	1.92	425068.06	683430.30	N 32 10 10.87 W 103 56 21.42	W 103 56 21.42
	8493.00	88.89	335.47	9093.63	1641.45	1606.40	694.53	0.81	425068.06	683456.25	N 32 10 11.87 W 103 56 21.42	W 103 56 21.42
	8495.00	86.21	0.07	9096.20	1736.27	1701.37	693.77	0.24	425068.06	683482.11	N 32 10 12.61 W 103 56 21.42	W 103 56 21.42
	8497.00	84.55	0.21	9098.89	1831.11	1796.33	693.76	0.39	425068.06	683507.96	N 32 10 13.55 W 103 56 21.41	W 103 56 21.41
	8499.00	84.78	0.29	9101.09	1924.96	1890.30	693.17	0.24	425068.06	683533.82	N 32 10 14.48 W 103 56 21.41	W 103 56 21.41
	8501.00	84.78	0.29	9103.88	2018.67	2078.28	695.29	0.50	425068.06	683559.68	N 32 10 15.35 W 103 56 21.40	W 103 56 21.40
	8503.00	89.55	335.78	9105.98	2113.87	2174.25	696.11	2.22	425068.06	683585.54	N 32 10 16.25 W 103 56 21.39	W 103 56 21.39
	8505.00	89.55	335.78	9108.35	2208.55	2289.18	698.61	1.24	425068.06	683611.39	N 32 10 17.28 W 103 56 21.35	W 103 56 21.35
	8507.00	89.64	1.79	9110.35	2303.48	2384.13	699.79	2.71	425068.06	683637.30	N 32 10 18.23 W 103 56 21.35	W 103 56 21.35
	8509.00	87.63	335.64	9111.11	2398.35	2467.84	699.04	1.69	425068.06	683663.25	N 32 10 19.17 W 103 56 21.34	W 103 56 21.34
	8511.00	86.04	358.71	9116.27	2586.59	2552.95	698.38	2.31	425068.06	683689.19	N 32 10 20.08 W 103 56 21.33	W 103 56 21.33
	8513.00	84.04	358.71	9118.53	2681.15	2647.84	698.38	0.76	425068.06	683715.07	N 32 10 21.01 W 103 56 21.33	W 103 56 21.33
	8515.00	89.14	357.67	9123.37	2870.39	2837.68	684.38	1.78	425068.06	683740.93	N 32 10 21.88 W 103 56 21.43	W 103 56 21.43
	8517.00	89.04	355.37	9124.88	2965.07	2932.63	681.82	1.44	425068.06	683766.79	N 32 10 22.80 W 103 56 21.50	W 103 56 21.50
	8519.00	89.07	355.25	9125.66	3058.81	3026.61	679.97	1.68	425068.06	683792.65	N 32 10 23.86 W 103 56 21.56	W 103 56 21.56
	8521.00	89.90	357.59	9126.52	3153.55	3121.58	678.35	1.16	425068.06	683818.51	N 32 10 24.80 W 103 56 21.52	W 103 56 21.52
	8523.00	90.00	357.59	9128.06	3248.95	3215.51	677.21	0.84	425068.06	683844.37	N 32 10 25.73 W 103 56 21.54	W 103 56 21.54
	8525.00	90.48	358.56	9127.67	3343.59	3305.45	677.35	1.15	425068.06	683870.23	N 32 10 26.67 W 103 56 21.60	W 103 56 21.60
	8527.00	91.58	359.12	9127.44	3438.59	3400.43	668.74	1.39	425068.06	683896.09	N 32 10 27.60 W 103 56 21.63	W 103 56 21.63
	8529.00	91.78	1.07	9127.17	3533.32	3500.43	668.74	0.94	425068.06	683921.95	N 32 10 28.54 W 103 56 21.65	W 103 56 21.65
	8531.00	90.40	0.90	9124.04	3628.04	3580.36	672.01	1.31	425068.06	683947.80	N 32 10 29.48 W 103 56 21.68	W 103 56 21.68
	8533.00	90.40	0.08	9124.04	3721.04	3680.36	672.01	1.31	425068.06	683973.66	N 32 10 30.42 W 103 56 21.68	W 103 56 21.68
	8535.00	89.66	357.96	9124.31	3815.55	3785.35	671.21	2.36	425068.06	684024.04	N 32 10 31.36 W 103 56 21.58	W 103 56 21.58
	8537.00	89.79	357.96	9124.31	3910.55	3880.36	671.21	2.36	425068.06	684049.90	N 32 10 32.30 W 103 56 21.58	W 103 56 21.58
	8539.00	89.66	0.41	9124.68	4005.55	3975.35	665.06	0.13	425068.06	684075.76	N 32 10 33.24 W 103 56 21.58	W 103 56 21.58
	8541.00	89.66	0.40	9124.68	4100.55	4069.33	665.06	0.13	425068.06	684101.62	N 32 10 34.18 W 103 56 21.58	W 103 56 21.58
	8543.00	89.66	0.40	9124.68	4195.55	4164.31	665.06	0.13	425068.06	684127.47	N 32 10 35.12 W 103 56 21.58	W 103 56 21.58
	8545.00	89.66	0.40	9124.68	4290.55	4259.31	665.06	0.13	425068.06	684153.33	N 32 10 36.06 W 103 56 21.58	W 103 56 21.58
	8547.00	89.66	0.40	9124.68	4385.55	4353.30	665.06	0.13	425068.06	684179.19	N 32 10 37.00 W 103 56 21.58	W 103 56 21.58
	8549.00	89.66	0.40	9124.68	4480.55	4453.24	665.06	0.13	425068.06	684205.05	N 32 10 37.94 W 103 56 21.58	W 103 56 21.58
	8551.00	89.66	0.40	9124.68	4575.55	4553.24	665.06	0.13	425068.06	684230.90	N 32 10 38.88 W 103 56 21.58	W 103 56 21.58
	8553.00	89.66	0.40	9124.68	4670.55	4653.22	665.06	0.13	425068.06	684256.76	N 32 10 39.82 W 103 56 21.58	W 103 56 21.58
	8555.00	89.66	0.40	9124.68	4765.55	4753.22	665.06	0.13	425068.06	684282.62	N 32 10 40.76 W 103 56 21.58	W 103 56 21.58
	8557.00	89.66	0.40	9124.68	4860.55	4851.16	665.06	0.13	425068.06	684308.48	N 32 10 41.70 W 103 56 21.58	W 103 56 21.58
	8559.00	89.66	0.40	9124.68	4955.55	4942.17	665.06	0.13	425068.06	684334.34	N 32 10 42.64 W 103 56 21.58	W 103 56 21.58
	8561.00	89.66	0.40	9124.68	5050.55	5037.18	665.06	0.13	425068.06	684360.20	N 32 10 43.58 W 103 56 21.58	W 103 56 21.58
	8563.00	89.66	0.40	9124.68	5145.55	5124.16	665.06	0.13	425068.06	684386.06	N 32 10 44.52 W 103 56 21.58	W 103 56 21.58
	8565.00	89.66	0.40	9124.68	5240.55	5212.16	665.06	0.13	425068.06	684411.92	N 32 10 45.46 W 103 56 21.58	W 103 56 21.58
	8567.00	89.66	0.40	9124.68	5335.55	5300.14	665.06	0.13	425068.06	684437.78	N 32 10 46.40 W 103 56 21.58	W 103 56 21.58
	8569.00	89.66	0.40	9124.68	5430.55	5396.11	665.06	0.13	425068.06	684463.64	N 32 10 47.34 W 103 56 21.58	W 103 56 21.58
	8571.00	89.66	0.40	9124.68	5525.55	5491.09	665.06	0.13	425068.06	684489.50	N 32 10 48.28 W 103 56 21.58	W 103 56 21.58
	8573.00	89.66	0.40	9124.68	5620.55	5586.07	665.06	0.13	425068.06	684515.36	N 32 10 49.22 W 103 56 21.58	W 103 56 21.58
	8575.00	89.66	0.40	9124.68	5715.55	5681.05	665.06	0.13	425068.06	684541.22	N 32 10 50.16 W 103 56 21.58	W 103 56 21.58
	8577.00	89.66	0.40	9124.68	5810.55	5776.03	665.06	0.13	425068.06	684567.08	N 32 10 51.10 W 103 56 21.58	W 103 56 21.58
	8579.00	89.66	0.40	9124.68	5905.55	5871.01	665.06	0.13	425068.06	684592.94	N 32 10 52.04 W 103 56 21.58	W 103 56 21.58
	8581.00	89.66	0.40	9124.68	6000.55	5966.00	665.06	0.13	425068.06	684618.80	N 32 10 52.98 W 103 56 21.58	W 103 56 21.58
	8583.00	89.66	0.40	9124.68	6095.55	6061.00	665.06	0.13	425068.06	684644.66	N 32 10 53.92 W 103 56 21.58	W 103 56 21.58
	8585.00	89.66	0.40	9124.68	6190.55	6156.00	665.06	0.13	425068.06	684670.52	N 32 10 54.86 W 103 56 21.58	W 103 56 21.58
	8587.00	89.66	0.40	9124.68	6285.55	6251.00	665.06	0.13	425068.06	684696.38	N 32 10 55.80 W 103 56 21.58	W 103 56 21.58
	8589.00	89.66	0.40	9124.68	6380.55	6346.00	665.06	0.13	425068.06	684722.24	N 32 10 56.74 W 103 56 21.58	W 103 56 21.58
	8591.00	89.66	0.40	9124.68	6475.55	6441.00	665.06	0.13	425068.06	684748.10	N 32 10 57.68 W 103 56 21.58	W 103 56 21.58
	8593.00	89.66	0.40	9124.68	6570.55	6536.00	665.06	0.13	425068.06	684773.96	N 32 10 58.62 W 103 56 21.58	W 103 56 21.58
	8595.00	89.66	0.40	9124.68	6665.55	6631.00	665.06	0.13	425068.06	684800.00	N 32 10 59.56 W 103 56 21.58	W 103 56 21.58
	8597.00	89.66	0.40	9124.68	6760.55	6726.00	665.06	0.13	425068.06	684825.86	N 32 10 60.50 W 103 56 21.58	W 103 56 21.58
	8599.00	89.66	0.40	9124.68	6855.55	6821.00	665.06	0.13	425068.06	684851.72	N 3	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	20184.00	90.14	356.18	9137.48	11663.34	11644.70	659.82	1.32	435808.80	663227.41	N 32 11 51.01	W 103 56 21.41
	20373.00	90.27	357.14	9138.80	11851.14	11833.38	648.77	0.52	435997.48	663216.36	N 32 11 52.87	W 103 56 21.53
	20468.00	89.76	358.99	9138.78	11945.62	11928.25	643.91	0.56	436092.32	663211.50	N 32 11 53.81	W 103 56 21.58
	20563.00	89.93	354.52	9137.03	12038.83	12022.88	636.88	2.61	436187.05	663204.47	N 32 11 54.75	W 103 56 21.66
Final MWD	20628.00	89.31	356.46	9137.46	12104.26	12087.78	631.77	3.13	436251.84	663189.36	N 32 11 55.39	W 103 56 21.71
Survey Proj. to Bit	20675.00	89.31	356.46	9138.03	12150.94	12134.68	628.88	0.00	436298.74	663196.46	N 32 11 55.88	W 103 56 21.74

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 23H Gyro+MWD 0-20,675'
	1	26.500	26.500	Act Strs	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 23H Gyro+MWD 0-20,675'
	1	26.500	531.500	Act Strs	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 23H
	1	531.500	20675.000	Act Strs	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 23H



Structure:

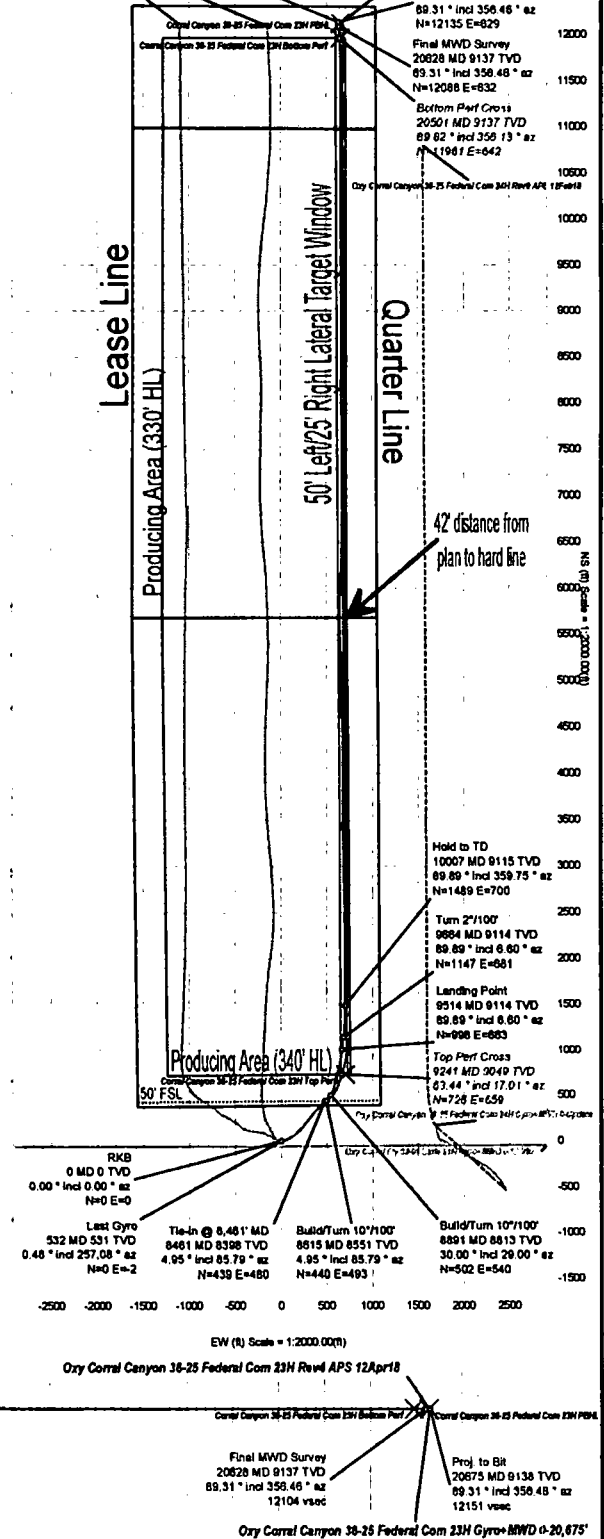
Oxy Corral Canyon 36-25 Federal Com 23H

Miscellaneous

City Corral Canyon
Slot: 36-25 Federal Com TYD Ref: R0XB=0LS(3140R above HSL)
E3H
Plan: City Corral Canyon 36-25 Federal Com E3H Rev4 APR 12Apr18

Oxy Corral Canyon 36-25 Federal Com 23H Rev4 APS 12/Apr18

Proj to Bit 12500
20675 MD @ 138 TVD



Vertical Section (ft) Azim = 3.08° Scale = 1:2000.00(ft) Origin = 0N-S, 0E-W